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# BSNews

MECHANICAL & ELECTRICAL BUILDING SERVICES

DECEMBER 2001

DEFINITIVE BOLIERHOUSE OF THE YEAR 2001



European AC market Report

Refrigeration Skillnet Review

Radiators

York Profile

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# BSNews\*

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BUILDING SERVICES

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Irish Building Services News (formerly Irish H&V News) is Ireland's only Building Services magazine providing coverage of heating, ventilating, air conditioning, refrigeration, sanitaryware, plumbing, maintenance and environmental industries. It is the only publication catering exclusively for these industries and its circulation includes members of the following:-

Chartered Institution of Building Services Engineers (CIBSE); The Mechanical Engineering & Building Services Contractors' Association (MEBSA); The Association of Consulting Engineers of Ireland (ACEI); The Mechanical Engineering Contractors' Association; The Institute of Domestic Heating Engineers (IDHE); The Registered Heating Contractors Association; The Maintenance, Energy & Environmental Technology Association (MEETA) which incorporates energy managers and maintenance managers; The Energy Conservation & District Heating Association; The Institute of Plumbing; The Irish Home Builders Association (IHBA); Builders Merchants/Trade Supply Outlets; Irish Property & Facilities Managers Association.

In addition, Irish Building Services News circulates to independent building services contractors and key executives in industry. Government, Semi-State and local authority bodies. Essentially, our circulation is virtually saturation coverage of all those with an interest and/or involvement in the industry.

**Louise, Joe & Pat  
wish all our readers a  
Happy & Peaceful  
Christmas, &  
Prosperous New Year!**



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## Built Environment Student of the Year

The first ever "Student of the Year" award ceremony for final year students on the Buildings Maintenance Technician Course 2000 was held at DIT, Bolton Street recently.

The award is open to all final year students on this 2-year course which prepares graduates for employment for the maintenance industry, in both the private and public sectors.

The award is based on student performance in the final project paper, with particular emphasis on study areas such as: building services; drawing rehabilitation and conservation; maintenance management systems; and communication skills.

The sponsor is Patrick Wigglesworth, Managing Director, PW Stone Construction Ltd. In presenting the award, Mr Wigglesworth, a past graduate of DIT himself, said how pleased he was to be associated with this initiative in recognition of the achievements of the maintenance graduates. He said for far too long very little credit was shown towards personnel in this industry which was now a very important sector in construction activities in Ireland.

The inaugural winner is Martin Shannon, Glone Connell, Co Cavan. Martin completed his final examination in June 2000, achieving a Distinction.



Patrick Wigglesworth, sponsor; Award recipient Martin Shannon; and Fred Horford, Assistant Head of Department.

## Best Ventilation for Pubs

PubAIR, the Vintners Federation of Ireland campaign that encourages licensees to get rid of the smoke without losing the smokers, is running a seminar early next year on providing the best ventilation solutions for pubs. Led by an independent expert in the field, the seminar aims to bring installers up to date with what pubs are looking for, to ensure that they can sell their equipment with confidence. All companies involved in the installation of ventilation equipment are invited to attend. The seminar is completely free of charge.

Contact Kay Mulford, PubAIR. Tel: 0044 20 76543505; email: kaym@crconsulting.co.uk

## Economical Submersible Level Switch

Designed for wash-down durability and cleanliness in food and beverage applications, and for heavy-duty use in other damp and corrosive applications, the new Dwyer Model F7-K Level Switch from Manotherm is built, both float and stem, of chemically-compatible, completely submersible Kynar. This hermetically-sealed unit is CE-approved, rated NEMA 6 (IP67), and approved for use by the National Sanitation Foundation (NSF).

This switch is meant to be mounted vertically in a tank or vessel and is configured for normally open operation, but can be operated in normally closed mode by simply reversing its float. A 1/8" NPT (M) connection



Dwyer F7-K level switch from Manotherm.

makes for quick and easy installation. Continued next page

Temperature range for the switch is -40 to 180 °F (-40 to 82°C). Maximum pressure is 100 psig (6.89 bar). Electrical rating is 50 Watts: 0.25A @ 150 VAC; 0.4A @ 120 VAC; 0.25A @ 200 VDC; 1.5A @ 24 VDC.

Contact: Bob Gilbert or Brian Harris, Manotherm. Tel: 01-452 2355. Email: manotherm@eircom.net.



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## TRADE NEWS

## Danfoss Programmable and Set-Back Thermostats

Danfoss has introduced a new range of programmable room thermostats and set-back thermostats, bringing a new and modern style to the market. The programmable thermostat, type TP5000, will in time replace the TP5E model. The RT51 and RT52 set-back thermostats will replace the RT1 and RT2 respectively. All products are available in conventional hard-wired versions and wireless RF version.

The TP5000 combines the functionality of a room thermostat and timeswitch into a single, simple-to-use controller. Offering 5/2-day operation, up to six time and temperature changes per day, with a different programme for

the weekends, the TP5000 is an ideal solution for combi boiler systems.

In addition to programmed temperatures, the thermostat can also be programmed to turn the heating off at user-defined times. Other useful user overrides include temporary temperature overrides, thermostat mode and a weekend into weekday override, ideal for holiday periods.

The RT51 and RT52 provides two temperature settings – one typically used in the day and another for the night periods of inoccupancy. The RT51 offers manual return to day setting, while the RT52 incorporates a timer, which automatically

returns the thermostat to Day temperature operation at a user defined time which is repeated each day.

The RF version of all three thermostats is ideal for use in situations where a quick and easy installation is required. Wiring is limited to that needed between the RX receiver unit and the boiler or valve it is controlling. No wiring is needed between the thermostat and boiler,

making all three thermostats ideal for new and upgrade situations. All RF versions are equipped with a radio transmitter, which utilises secure digital FM communication between the thermostat and a receiver unit, which can be mounted up to 30 meters away.

Contact: Robert Fitzpatrick and David Holmes, Danfoss Ireland. Tel: 01-626 8111; Email: [marketing@danfoss.ie](mailto:marketing@danfoss.ie)



New range of programmable thermostats from Danfoss.

## RKD Win BIAT Awards

Dublin architectural practice RKD scooped two prizes at the recent BIAT Awards. This award is specifically designed to recognise technical excellence in the built environment. The Awards were presented by newly-instated BIAT President Robert Mason PBIAT.

RKD took second prize for the Guinness Storehouse, Dublin. This project demonstrated a stylish refurbishment of an imposing turn-of-the-century building while still preserving its original industrial character.

In addition, RKD was awarded third prize for Independent House at Citywest. The judges were particularly impressed with the innovative use of warm air to reduce condensation on the surface of the glazed structure.

"We are very happy to be the only Irish practice in the line up for these awards. With tough competition from mainly UK and European architectural practices, we feel that architectural design from Ireland is well able to compete with best-in-class from overseas," said David Browne, senior partner at RKD Architects.



At Independent House in Citywest RKD used warm air to reduce condensation on the surface of the glazed structure

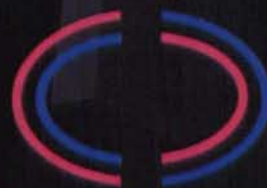


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## WILO Boost to GPO Workers for Christmas Rush

Since their introduction to the Irish market earlier this year, the Wilo COR / MHIE / VR booster range has proved very popular with both specifiers and installers alike. Wilo Engineering has recently supplied and commissioned boosters from this range to prestigious projects all around the country. Most

apartment development at Clarion Quay, again boosting mains supply to the individual apartments and a unit was also recently installed at the new hotel extension at the prestigious Druid's Glen Golf resort.

This range of variable speed boosters exploits the performances of the MHIE range of stainless steel,

them ideally suited to potable water boosting applications. The booster systems can combine up to a max. of 4 pumps, achieving performances up to 20 L/Sec. and pressures of up to 8 bar. The microprocessor controlled VARIO - VR panel manages the pump operating performance, providing a constant discharge pressure at variable flow rates, matching the required demand. The VARIO panel also offers a host of additional features such as integrated motor overload

protection, dry run protection, automatic lead pump cyclic changeover and volt-free contacts for both run and fault indication to a building management system. Due to the advantage of matching pump output to demand, and reducing energy consumption, this technology is fast becoming the preferred option and no longer the exception.

Contact: Wilo Engineering.  
Tel: 061 - 410 963;  
Fax : 061 - 414 728.  
E-mail : sales@wilo.ie  
Web : www.wilo.ie



notably, a unit was supplied to the GPO 4th, floor refurbishment project, where the booster provides mains water to the new staff canteen facility, helping to keep the postal workers fed during the Christmas rush. Also in Dublin, a unit was supplied to the luxury

horizontal multistage pumps. The range is a further development of the successful MHI range, and incorporates automatic variable speed controlled motors. They can be supplied in either AISI 304 or AISI 316 L stainless steel versions and have WRC approval, making

## General Sales Manager Wavin

Brendan F Murphy (pictured) has been appointed General Sales Manager at Wavin Ireland Ltd. He takes over the sales management function from Larry Carr who became Managing Director at Wavin in July.

Mr Murphy has over ten years sales management experience at a senior level. He joins Wavin from Dunlop Slazenger Ireland Ltd, where he was General Manager/Director. Prior to joining Dunlop Slazenger in November 1998 he was with Bristol Myers Consumer Co Ltd, where he held a variety of sales management positions, including Business Development Manager and Sales Manager.

His academic qualifications include an MBA and an Advanced Management Diploma (AMD) from University College, Dublin as well as a Certified Diploma in Accounting and Finance (CDipAF) from the Chartered Association of Certified Accountants.

Wavin is Ireland's largest manufacturer and distributor of pvc pipe systems. The company provides in the region of 3,000 products for a range of uses by the building/construction industry, local authorities, utilities and the farming sector.





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TRADE NEWS

## AcTech — A Trans-Global Company Improving Sound Quality

Ventac was founded in 1972 as a supplier of ventilation and electrical equipment to mechanical services contractors. Within a few years it had begun to specialise in air movement and air pollution. One of the primary concerns of consulting engineers was noise, which led Ventac to develop a range of fan silencers, acoustic jackets and louvres. As Ventac moved into the 1980s, the development of the acoustic side of the business increased to encompass industrial enclosures, isolation systems, and vibration control.

However, by 1994 Ventac realised that, in order to stay at the forefront of the marketplace and to be

competitive in Europe, it needed an edge on other industry players, something which would set it apart. Hence the decision to establish Ireland's first commercial acoustic laboratory and the formation of a wholly-owned subsidiary of Ventac, called NCRL Ltd (Noise Control Research Laboratories).

NCRL commenced trading in 1994 as a stand-alone operation specialising in the testing and accrediting of products and systems manufactured by Ventac. Within a couple of years the business had expanded considerably to a point where it was involved in the commercial testing of products and the development and

manufacture of enclosures. Since 1998 NCRL has been involved in the manufacture, supply and accreditation of architectural products.

Ventac's philosophy of development and growth through investment, direction and quality personnel led to the next chapter in the company's evolution, the formation of AcTech. Officially launched in May 2001, NCRL felt there was a need for a dedicated acoustics company to serve the needs of certain markets, especially given that many of the suppliers to OEMs were either manufacturers with limited acoustics knowledge or, acousticians with limited manufacturing expertise. AcTech bridged this gap by employing key personnel with extensive experience in acoustics, manufacturing, composites and engines.

It now has a manufacturing partner in the US and its own manufacturing operation in Europe. The objective of this new endeavour is to provide a trans-global supply of acoustic materials and composites to the vehicle construction, marine and aerospace industries. AcTech does not serve the passenger car industry.

Looking to the future, the Ventac Group of companies will move to two new, purpose-designed buildings in January 2003. The new NCRL laboratories will encompass five laboratories and its purpose will be research and development only. All commercial activities in the architectural, building services and industrial markets will be taken over by AcTech, with the NCRL laboratory facility also serving as the test ground for many of AcTech's innovative products.

"Our commitment to quality and our customers has brought us to where we are today", says Ventac's Ciaran King, "and that same dedication and direction will help us achieve continued growth towards our goal of becoming a global leader in the supply of acoustic materials and services."

Contact: AcTech,  
Dublin:  
Tel: 353 1 - 667 1077;  
AcTech, Scotland:  
Tel: 0044 1698 540620;  
AcTech, England:  
Tel: 0044 1925 759 955.



The Ventac, NCRL and AcTech Group Head Offices in Dublin are scheduled for occupation in January 2003.



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EUROPEAN A C S A L E S T O G R O W

# West European Central Plant Air Conditioning Market

The European central plant market was US\$1.7 billion in 2001 with Germany and Italy vying for the No: 1 position. Despite the world slowdown and the threat of terrorism, chiller sales across Europe are forecast to grow at 12% and fan coils 8.5% per annum, with air handling units advancing significantly in Southern Europe.\*

## Chillers

The chiller market has leapt up in the last few years to US\$720 million. Reciprocating chillers have now slumped to 30% share across Europe, down from well over 50% during 1998/99, and will fall to 18% of sales by 2005. Scroll chillers are now the most common type and will account for over half of all European chiller sales by 2005. Screw is also rising sharply.

The absorption market has also increased significantly prompting the huge Chinese manufacturer, Broad, to establish a base in Europe, particularly targeting the Spanish market.

Italy remains the key market. By 2005 sales will have risen to over 60,000 units, with half of all sales still below 20kW. France and Spain are the next biggest in volume. France remains a major production centre for both chillers and airside, exporting over 50% of production from the US majors Ciat and Airwell.

Carrier, Daikin, McQuay, Trane and York have tightened their grip on the European chiller market in the last 2-3 years. There is a second tier group of Ciat and Lennox from France, and Clivet, Climaveneta and Aermec from Italy. Airedale and Hitachi (UK), RC and Blue Box (Italy), Saunier Duval (Spain), Fyrogenis and Interclima (Greece) are also strong but primarily focused on one or two countries. Another big brand in Europe for reciprocating chillers is Polenz, which rebrands Clivet and

Climaveneta chillers for sale in Germany.

Although the deadline for the phase out of HCFC chillers is only two years away, the Southern European countries, and particularly France, are predominantly HCFC-22.

## Air handling units

Sales of central station air handling units were US\$558 million and 110,000 units in 2001. Although Germany still accounts for over half the market, it is the emerging markets of Italy, Greece and Spain which are seeing the fastest growth. Only Germany and the UK have significant sales of standard products; elsewhere semi-custom is the dominant product type. Italy and France are strongest for the small fully-custom market. A feature of France is that over 50% of sales are below 1.53m<sup>3</sup>/s.

The largest players in Germany are GEA Happel, Wolf (both of whom can be regarded as pan-regional players), Al-Ko and Robatherm, with Ciat, Lennox, Hydronic and Wesper strong in France. Both Italy and the UK are regarded as fragmented markets, with many specialist companies. The UK has some 20 significant players, with a turnover of US\$1 million+.

Across Europe the only other brands found right across Europe are ABB, Carrier, McQuay, Trane and York, but they do not dominate each market as is the case with chillers.

## Fan coils

Fan coils are growing strongly with sales expected to reach nearly two million units by 2005. The low-cost Italian market still accounts for 60% of the European market, with small chiller/fan coil systems common throughout the commercial sector. Some 90% of the Italian market is of the concealed type, with vertical particularly strong. Unique to Italy there is also a significant residential market (over 100,000 units) in apartment blocks.

France, the second largest market is very different. It is dominated by cased units, and now controls over half of the European chilled water cassette market which has risen sharply in the last two years to 55,000 units.

The UK is highly sophisticated with average prices three times as high as Italy. However, with some 27 active companies, the market is one of the most fragmented and competitive in Europe.

Although the 2-pipe type dominates in most countries, overall sales are evenly split between 4-pipe and 2-pipe because of the high share held by 4-pipe both in the giant Italian market and the UK.

Most of the main players in fan coils are strong in only one or two countries, including Lennox and Trane (France), Quartz, Diffusion (UK), Tecnivel (Spain), De'Longhi, Rhoss (Italy) and Gea Happel (Germany). Carrier and Aermec who dominate Italy are two of the very few pan-regionals.

## VAV units

The VAV market is now approaching 100,000 units and dominated by Germany, France, and to a lesser extent the UK. Sales of the fan assisted type are negligible in the UK but account for almost all of the German market.

\*Source: Latest BRSIA report. For details contact Tel: 0044 344 426 511; Email: [andrewg@bsria.co.uk](mailto:andrewg@bsria.co.uk); Website: [www.bsria.co.uk](http://www.bsria.co.uk)



# Refrigeration Technology Skillnet



Martyn Cooper, INEOS Flour.

**T**his year saw the continued growth of Refrigeration Technology Skillnet – the training network for the refrigeration sector in Ireland. There was growth both in the number of participating companies, and in the range of training events organised and promoted by the network.

The network continued to offer a series of technical training courses, in particular General Refrigeration, Air Conditioning and

Refrigerant Handling. However, a number of new initiatives were also taken. "We held an AGM in April of this year", says Enda Hogan, Project Manager of the network, "and invited suggestions from the membership as to what other training needs were being overlooked. These suggestions led to a new Business Skills Development programme in the latter half of the year and a very successful management seminar in October".

The management seminar was held in Citywest Hotel and was offered free of charge to network members. Martyn Cooper Ineos

Fleur spoke on the topic of new refrigerants. Michael O'Hart, Dangerous Goods Advisory Services, gave an overview of legislation relating to the transportation of refrigerants. Vincent Delaney, NSAI dealt with the topic of Environmental Management Systems and Glen Greenbank focused on the importance of training for profit.

Copies of these presentations and further information on network events are available on the network, website: [www.dit.ie/ats](http://www.dit.ie/ats); or by contacting the project manager, Enda Hogan. Tel: 01 - 878 3773.



Above: Delegates at the recent training seminar in Citywest Hotel, organised by Refrigeration Technology Skillnet.



Right: Enda Hogan, Refrigeration Technology Skillnet with Michael Hart with Dangerous Goods Advisory Services; Glen Greenbank, Practical Refrigeration Training Centre; Martyn Cooper, INEOS Flour; and Vincent Delaney, NSAI.



HEATING SYSTEMS

# MAN Boilers Perfect for Underfloor Heating Systems

The MAN range of condensing gas boilers is perfectly adapted for use with underfloor heating systems, says RVR's Michael Hayes. Optimum boiler efficiencies are available due to the low return water temperatures and the boiler will operate in condensing mode 100% of the time. The boilers also include a hot water priority feature which enables higher flow temperatures to be obtained when hot water heating is needed. System efficiencies are further enhanced as the boiler includes an in-built weather compensation system which regulates the water flow temperature according to the outside air temperature.

MAN are one of Germany's best known industrial groups and are involved in the manufacture of many industrial products including diesel engines, trucks, burners and boilers. The MAN brand is known around the world for high quality and engineering excellence. RVR Ltd, the Kenmare based manufacturer of HVAC equipment, is the sole Irish distributor for MAN Heiztechnik, a division of MAN and manufacturers of ultra high-efficiency boiler products.

The MAN range of ultra high-efficiency boilers, for domestic and commercial applications, includes models with outputs from 16kW up to 330kW. Wall hung boilers are available in capacities up to 76kW output. All of

the boilers share common features including:

- Ultra high efficiencies achieved using the unique SpiranoX heat exchanger.
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  - In-built weather compensation
  - Hot water priority feature
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  - Compact size
  - Very low noise levels
  - CE marked for Natural gas and LPG
- The MAN boilers provide very high levels of operating efficiency



throughout the heating season. The combination of full burner modulation and weather compensation means that the boilers regulate the flow water temperature to precisely match the building demand. The boiler will therefore operate in condensing mode for a much greater proportion of time than other, less sophisticated, designs. Savings of up to 40% of total heating cost have been demonstrated, according to Michael Hayes.

As well as providing weather compensated water supply to a heating system, the boilers can also control the heating of the domestic hot water supply and are perfectly adapted for use with calorifiers and indirect water heaters. All boilers are capable of monitoring and displaying the temperature of the stored water and also have an electrical output which will drive a diverting valve or pump for the water heating circuit.

MAN boiler models are available for all applications ranging from residential to commercial and industrial. They may be installed individually or in multiples. A special controller is available to control installations of up to five boilers. This will provide boiler sequencing and weather compensation of a group of boilers.

A 2-year warranty is available on all boiler parts and five years on the stainless steel heat exchanger and burner. The boilers are supported by RVR's nationwide service network and extensive training has also been carried out with the service departments of the various gas companies.

Contact: Michael Hayes or Padraig Blake, RVR.

Tel: 064 41344; Fax: 064 41511; email: man@rvr.ie, web: www.rvr.ie.



CONSTRUCTING ATMOSPHERES

# Light + Building 2002

**L**ight + Building, the world's biggest trade fair for architecture and technology, will be held in Frankfurt am Main from 14 to 18 April 2002. On almost 120,000 sq m of exhibition space (net), more than 2,100 exhibitors will present their latest products and innovations for the fields of lighting, electrical engineering, air-conditioning and house and building automation.

Compared to the last event, Light + Building 2002 will be 20% bigger with international exhibitors up by more than 50%. Light + Building is aimed at all specialists involved in the integral planning, building and designing building, as well as investors and general contractors, dealers, suppliers, buyers, planners, property developers, architects and interior designers.

Light + Building will be accompanied by numerous events,

which perfectly round off every visit to this international trade fair. A special highlight in, for example, the air-conditioning segment, is outLOOK for architects and planners where, under the title "Constructing Atmospheres", visitors will be able to discover the entire range of solutions available in the segment and learn about the work

**Light + Building 2002 will be 20% bigger with international exhibitors up by more than 50%**

and tasks shared by air-conditioning engineers and architects.

Creative designer Gunnar Frank, The Netherlands, will define lighting trends for 2002/2002 and present them in the Domestic Lighting Trend Show. Together with his international team of experts, Gunnar Frank will show how lighting can be used as an independent

design element alongside furniture, textiles and accessories.

The Building Performance Congress will be held parallel to Light + Building at Frankfurt Fair and Exhibition Centre for three days, from 15 to 17 April 2002. This is the specialist heart of Light + Building and gives participants the chance to see

"beyond their own noses" in nine forums. The Building Performance Congress plays a decisive role in promoting an interdisciplinary view of planning, constructing and

managing buildings. At the same time, it enables participants to make close contacts and exchange information and experience with representatives of other product segments.

Contact: Geologistics Ltd.

Tel: 01-816 6600.

Website:

[www.light-building.messefrankfurt.com](http://www.light-building.messefrankfurt.com)





BOILER AWARDS

# Boiler Awards Generate £16 million Savings

**T**he total energy spend by the industrial and commercial sector in Ireland has increased by almost £90 million as a result of increasing fuel prices. That is according to information released by

urged large industrial users of energy in Ireland to significantly increase their efforts to tackle the levels of energy consumption in Ireland, and the resulting emissions of harmful greenhouse gases such as carbon

dioxide. CO2 is the biggest contributor to the problem of climate change and global warming.

"Industrial and commercial companies have a very important role to play in achieving greater energy efficiency and reducing Ireland's

*The aim of the Boiler Awards is to create a greater awareness and appreciation of the key role that boilers – and the people who operate, manage and service them – play in creating the right environment for people to work in*



Above: Virgil Bolger, Irish Energy Centre, with Liam Tolton, Tyco Healthcare - Commended: Steam Category and Joe Jacob TD, Minister of State at the Department of Public Enterprise.

Right: Virgil Bolger, Irish Energy Centre and right Mr Joe Jacob TD, Minister of State at the Department of Public Enterprise, with David Moran and Ms Colette Doggett, Sylvan Ireland, a winner in the Steam Category.

the Irish Energy Centre at this year's National Boiler Awards 2001. The awards were presented by Mr Joe Jacob TD, Minister of State at the Department of Public Enterprise.

Speaking at the event, Minister Jacob





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Technology & Commerce at the Department of  
Enterprise, Trade & Employment



**B O I L E R   A W A R D S**



Left: Virgil Bolger, Irish Energy Centre, with James McGrath, Merck Sharp, & Dohme, Clonmel - Highly Commended Boilerperson of the Year and Joe Jacob TD, Minister of State at the Department of Public Enterprise.

**STEAM CATEGORY**

<b>Commended:</b>	Tyco Healthcare Dublin 15
<b>Highly Commended:</b>	ESB, Aghada Generating Station, Co. Cork
<b>Winner Super Large Category:</b>	DuPont Ltd, Maydown, Londonderry
<b>Winner Large Category:</b>	Goldenvale Bailie Foods Ltd, Co. Cavan
<b>Winner Small Category:</b>	Sylvan Ireland, Navan

**HOT-WATER CATEGORY**

<b>Commended:</b>	Dungloe District Hospital.
<b>Highly Commended:</b>	Boston Scientific Europe, Cork
<b>Winner Large Category:</b>	Boston Scientific Europe, Galway

**SERVICE COMPANY CATEGORY**

<b>Commended:</b>	Spirax Sarco, Oberstown, Naas.
<b>Highly Commended:</b>	Boilerhouse Services Ltd, Lisburn.
<b>Winner:</b>	South Antrim Boiler Services, Lisburn.

**CHP CATEGORY**

<b>Commended:</b>	Ballyragget Power Ltd, Co. Kilkenny.
<b>Highly Commended:</b>	Co-Gen Ltd, Mitchelstown.
<b>Winner Small Category:</b>	University College Cork.
<b>Winner Large Category:</b>	Gate Power Ltd, St. James's Gate Brewery.

**ACHIEVEMENT AWARD**

<b>Winner:</b>	Numico Infant Nutritional Ltd, Co Wexford
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**SYSTEM DESIGN AWARD.**

<b>Highly Commended:</b>	Tyco Healthcare, Dublin 15
<b>Winner:</b>	St. Finbarres Cathedral, Cork

**BOILERPERSON OF THE YEAR.**

<b>Commended:</b>	Des McMahon, Vistakon Johnson & Johnson, Limerick
<b>Highly Commended:</b>	James McGrath, Merck Sharp & Dohme, Clonmel
<b>Winner:</b>	Eamon Roche, Aughinish Alumina, Co Limerick

**THE DEFINITIVE BOILERHOUSE AWARD**

<b>Winner:</b>	Pfizer Loughbeg, Ringaskiddy, Co Cork
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national annual fuel bill for boilers, which stands at £1.57 billion, with £1 billion of this accounted for by the industrial and commercial sectors", he said.

He continued: "Ireland urgently needs to stabilise energy-related emissions if we are to meet the ambitious targets set under the UN Kyoto Protocol to reduce the level of emissions of harmful gases including carbon dioxide. At current growth rates our total emissions of greenhouse gases in 2010 will be up to 25% above the 1990 levels".

The National Boiler Awards were launched by the Irish Energy Centre in 1996 with the aim of creating a greater awareness and appreciation of the key role that boilers – and the people who operate, manage and service them – play in creating the right environment for people to work in. In 1996 a total of 65 sites were involved in the competition, accounting for an annual energy spend on fuel of £19 million. The projects they had undertaken yielded energy savings of £290,000. This year, over 145 sites are involved in the competition, accounting for an energy spend of £324 million, and energy savings of almost £6 million.

In addition to the category winners, the Energy Centre presented Certificates of Merit to companies who scored more than 90% against the judging criteria in any of the competition categories.

The competition also has a strong environmental impact and this year the reduction in carbon dioxide emissions achieved by the competition will exceed 140,000 tonnes. Since its



## BOILER AWARDS

inception over 180 companies have participated in the competition and savings of over £16 million have been achieved.

Speaking at the awards, which are sponsored by HDS Energy Group, Peter Brabazon, Manager, Industry and Public Sector Programmes, Irish Energy Centre, said: "The Boiler Awards this year are timely, coming as they do at a time when energy spend by large industry in Ireland has increased by almost £90 million as a direct result of rising fuel prices. Growth in the Irish economy, though slowing down now, has increased energy consumption in all sectors at



Above: VJoe Jacob TD, Minister of State at the Department of Public Enterprise, with Martin Corkery, Pfizer Loughbeg - Winner Definitive Boilerhouse of the Year and Virgil Bolger, Irish Energy Centre.



Left: Joe Jacob TD, Minister of State at the Department of Public Enterprise, with Eamon Roache, Aughinish Alumina - Winner Boilerperson of the Year and Peter Brabazon, Irish Energy Centre.

an alarming rate and this is having a substantial impact on the level of harmful gases that we are emitting.

While many companies are working to achieve greater energy efficiency much more could be done".

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C I B S E N E W S

## Patrick Benson Memorial Lecture

The CIBSE held the inaugural Patrick Benson Memorial Lecture at DIT Bolton Street recently. The occasion proved particularly successful with approximately 40 attending for the lab visit, lecture and reception afterwards.

Patrick was a lecturer in DIT prior to his untimely death some years ago and the event was organised in his name to remember him, and the innovative and pioneering work he carried out. After his former colleague Don Byrne of the DIT gave a brief personal background to Patrick, Ben Costelloe presented a lecture called the "Potential for Indirect Evaporative Cooling in Buildings in Maritime Climates" in his memory. This was a particular interest of Patrick's and those present also had the opportunity to visit the lab and see the test rigs he set up to carry out his experiments on the matter.

It is intended that this will be an annual CIBSE event.



Above: Jim Curley with Howard Nevil and Greg Traynor. Left: Brian Homan, Chairman of CIBSE Republic of Ireland Branch.



Peter Monaghan and Michael Lynch.



Above, seated: Chris Montague with Michael McNerney and Derek Elton. Standing: Damien Gernon and Lim Kuang.



Left: Seamu Homan with Eoin Kenny and Don Byrne.



Ben Costelloe addressing the attendance during the lab visit.



# Engineered Systems Solutions

et al.: BS News



## York® ACR

### YORK INTERNATIONAL

Your International is the world's largest independent manufacturer of air conditioning and refrigeration systems with a network of dedicated, wholly-owned sales and service outlets in over 120 countries worldwide. York ACR Ltd in Ireland is a typical example with its unrivalled wealth of experience and skills across the total spectrum of the industry. It is at the forefront in providing pioneering and innovative engineered systems solutions to meet the exacting requirements of the commercial, industrial and specialist electronic, microchip and pharmaceutical industries. "Providing engineered solutions that stretch the boundaries of technology" is York ACR's mission statement and that objective is realised by bringing the company's vast wealth of accumulated knowledge, experience and skills — as represented by its employees — to bear on clients' requirements. This, coupled with the diverse product portfolio and the ability to tap in to a massive bank of international expertise and know-how, is what sets the company apart from its competitors.

York International is at the forefront of the global drive towards technological innovation, the design and production of new plant for the non-CFC age, and the development of state-of-the-art cooling systems for applications of all sizes.

York ACR is the standard-bearer in Ireland in this respect. Substantial funds have been invested in the company's purpose-built headquarters at the prestigious Citywest Business Campus in Dublin which houses offices, warehousing and workshops. Additionally, there is the company's second satellite branch in Cork which serves the Munster region.

Somewhat uniquely, York ACR enjoys all the benefits of being part of a global, market-leading brand while, at the same time, being free to operate autonomously at local level. This is critical to the company's success in Ireland ... bringing trans-national experience and expertise to bear in a tailored manner to suit the specific needs of the Irish marketplace.

The fruits of that endeavour have been realised in dramatic fashion in recent years with York's share of the various markets served (see inside) growing in quantum leaps, not just in terms of sales volume but also in respect of the number of highly-prestigious projects won.

Equally important is the emphasis placed on after-sales service and preventative maintenance. While the Engineered Systems Group is responsible for all sales within the company, it works in close partnership with the Service Division to ensure that, whatever the client's requirements are, a customised, cost-effective and energy-efficient solution is provided, from need identification right through the entire project management function to final hand-over.

York ACR ... delivering Total Engineered Systems Solutions.



York ACR Headquarters, Citywest Business Campus.



## FlexSy Underfloor Air System

York's FlexSy underfloor air system is the perfect air conditioning component for the building technology platform. Because the entire volume under the floor becomes a pressurised plenum, FlexSy MIT (modular integrated terminal) units can be installed anywhere within the raised floor grid. When the layout changes, so too can the location of any terminal.

Control and power wiring are located under the floor so that they can be re-connected with the terminals via "plug-and-play" connectors. Terminals can also be added or removed to meet changing loads, while control zones can also be added or rearranged.

## Engineered Systems Solutions

Chillers  
Condensing Units  
Air Handling Units  
Close Control Units  
Rooftop Units  
Fan Coil Units

## Standard Air Handling Units

The YMA family of air handling units consists of 31 models having air volumes ranging from 0.25m cu sec to 26m cu sec and total static pressures as high as 1600 pascal. Custom-designed units with larger capacities up to 50m cu sec are also available.

All units are made from extruded aluminium profiles and have flush-fitting panels and doors to provide aesthetically-pleasing lines. All panels are completely removable while the thermally-insulated enclosure is fully-sealed and has a high acoustic performance.

There are two types of units in the range — YSM which is of 25mm panel construction and YCC which is of 60mm panel construction. The fan coil units go from 0.5kw upwards and are Eurovent Programme certified.

All units are CE-approved and factory-tested before despatch.



## YorkMaxE With OptiView Control

York was the first to apply microprocessor-based, plain-language-display control centres to centrifugal chillers. Now, York MaxE centrifugal chillers feature the full-screen, full-colour, OptiView Control Centre.

This is an advanced, microprocessor control centre that sets the standards by presenting more data in the friendliest way possible. It retains the code-free, plain-talk data of the original but now it is even easier to read thanks to a large, full-colour screen using advanced, activ-matrix, display technology.

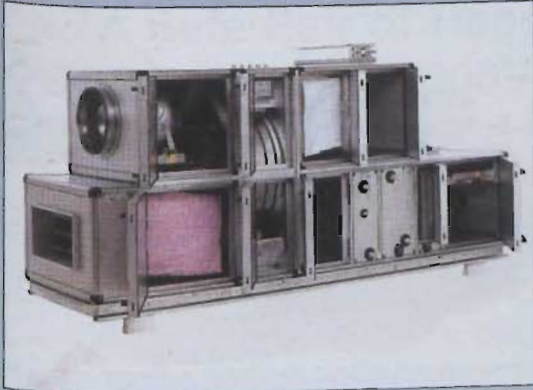




## Novenco Air Handling, Fans & Extractors

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Novenco is a long-established and recognised quality brand name, renowned for its air handling units, axial-flow fans, jet fans, centrifugal fans, box fans, roof extractors, air heaters, cabin units and dampers. Such is the strength and market profile of the Novenco name that, when York International acquired it some time ago, it was decided to retain the profile. The decision has proved appropriate with Novenco sales through York growing at a phenomenal rate right across the entire product portfolio.



## Chillers For Every Application

York is the leading manufacturer of chillers in the world with an extensive range which caters for all requirements. Incorporating innovative designs, advanced technology and the highest quality — all units are CE approved — there is a choice of air cooled, water cooled, reciprocating, screw and centrifugal models.

York is the only company to provide a variable speed drive for chillers, controlling the speed of the motor and pre-rotation vanes in the compressor.

Brief details of the range are:—

### AIR COOLED CHILLERS

11kw to 1500kw

### WATER COOLED CHILLERS

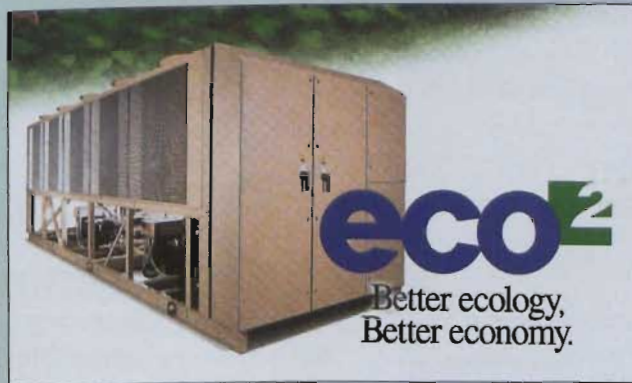
48kw to 30,000kw

### REFRIGERANTS

R134a; R407c; R717; and H2O

### COMPRESSORS

Scroll  
Centrifugal  
Screw  
Reciprocating



## Edpac Close Control



The Edpac Modular portfolio comprises a choice of models to suit varying requirements with capacities in the DX range going from 10kw to 80kw, and the chilled water range going from 10kw to 120kw. These modules form the basis of the entire Edpac Modular concept and are available in upflow and downflow configurations with top, bottom, front and rear return options.

## 'Clean Concept' Air Handling Units

York's YCC unit is Eurovent Certified and achieves the highest standards of mechanical performance, air thermal efficiency and air tightness. It is an all-metal air handling unit manufactured from 52mm thick, self-supporting, sheet metal panels which are insulated with either high-density mineral wool or CFC-free PU foam.

In standard air handling units most of the air leakage occurs between the frame and the panel. Consequently, York's YCC air handling units are frameless and panel junctions are sealed, thereby eliminating air leakage.

These units are fully-approved for the exacting requirements of cleanroom environments across a whole spectrum of critical manufacturing industry sectors such as pharmaceutical, electronic, microchip, etc.





# WE HANDLE WITH CARE ...

Service, commissioning, maintenance and retrofit is an essential ingredient in York ACR's armoury when delivering engineered systems solutions. Product knowledge, experience and continuous professional development are the prime requirements in this respect and all York ACR engineers undergo training upgrades, educationals and practical hands-on courses on a regular basis.

The entire country is catered for from the Dublin and Cork offices with engineers available for call-out, 24 hours a day, 365 days of the year. A 2-hour response time is guaranteed in most regions, with a maximum of three hours for all other areas.

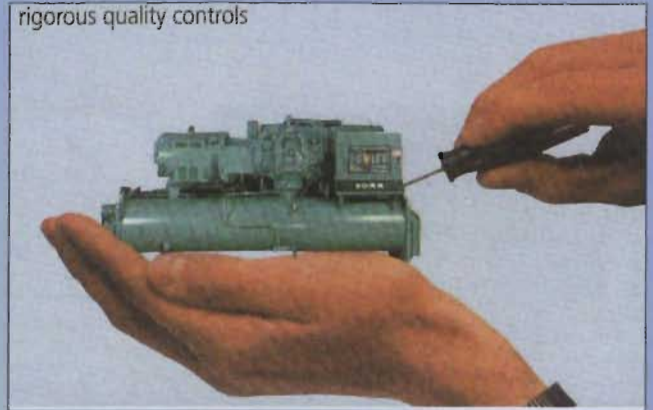
Extensive spares are held in stock with the more uncommon items available on an overnight DHL service which operates daily between York's UK centre and Dublin.

Full turn-key equipment installations can be provided to include system design, plant selection, installation and commissioning. Additionally, York ACR's integrated system network offers design, project management and engineering capability for chiller sequencing, energy management and process control. Plant modernisation and retrofit has become increasingly important in recent years and York ACR's engineers are particularly well-versed in meeting the needs of this fast-growing sector. Advice is provided on all aspects of plant modernisation, from improving efficiency to reducing energy consumption and system running costs.

System updates may be required for a number of reasons, such as the need for new components, changed cooling requirements, the need for greater efficiency, etc. York ACR will present a clear, costed proposal in each specific case and provide for all necessary works, products, components — and project management of the task — before embarking on the job.

In essence, retrofit from York ACR results in a maximum return for the financial outlay and peak performance from the air handling and refrigeration system.

rigorous quality controls



Service  
Commissioning  
Maintenance  
Retrofit

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**York ACR, Citywest Business Park, Naas Road, Dublin 22.**

**Tel: 01 - 466 0177; Fax: 01 - 466 0198;**

**Website: [www.york.com](http://www.york.com)**



# RADIATORS

## A Safe Pair of Hands — Honeywell TM200V ...

Michael Melligan of C&F Quadrant says that the Honeywell TM200V thermostatic mixing valve can be confidently selected to provide safe control of hot water temperatures, providing a secure environment for bathing and washing facilities.

This valve has been specifically designed to meet exacting new standards and is WRc approved as meeting the NHS Model Engineering Specification D08.

Selection is further made easy by way of:—

- Models available for washbasins, baths, bidets and showers;
- WRc approved for use on potable water;
- Lockable cap prevents unauthorised adjustment without the use of a tool;
- Rapid-response was capsule ensures temperatures can be controlled to within +2/-3 degrees of setpoint.

The TM200V is fail-safe on both hot and cold water failure and is ideal for installation in sheltered accommodation, nursing homes, hospitals, schools, playgroup areas and commercial buildings where control of scalding hot water is desirable.

Contact: Michael Melligan, C&F Quadrant.

Tel: 01 - 630 5757; Fax: 01 - 630 5706;

email: sales@cfquadrant.ie

## TA Hydronics' Valves

The commitment of Tour & Anderson Hydronics to the design of heating systems has resulted in the production of an extensive range of radiator valves made from Ametal, a unique quality and strengthened substance which enables all components to be made from the same material.

The valves fitted to the supply side of the radiator can either be manually operated (RVO) or thermostatically controlled, which can either be the TRV 400 Series or the RVT Series.

All types of valves can be standard operation or pre-set to a defined position, depending on system requirements.

There is also a range of return valves, lockshield manually-operated valves, valves for one-pipe systems, two-pipe systems and Radiett, the one valve body that contains both flow and return connections.

Contact: Bob Daly, Valve Control SYstems.

Tel: 01 - 825 9091; Fax: 01 - 825 8077;

email: vcs@indigo.ie

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RADIATORS

## Myson Radiators: 'The Choice for the New Millennium'

Myson is one of Europe's leading manufacturers of radiators. For both domestic and commercial use, the Myson range offers a wide choice of models, outputs and sizes. This offers the installer or specifier complete flexibility and the knowledge that there is a Myson radiator to suit almost every possible situation. In addition, all Myson radiators carry at least a 5-year guarantee. The Myson radiator range consists of the Premier, Select, Chorus, LST and Plan radiators.

**Premier** – The Myson Premier HE range comprises elegant, stylish and highly-efficient radiators. With the unique high-efficiency convector plate, Myson has created a radiator that is more compact and less obtrusive than others while also increasing its efficiency and output.

Only fully-finished steel is used in the production of the Premier HE range and this, coupled with advanced welding techniques ensures the highest quality and durability.

**Select** – The Select is a seamtop radiator available as a standard, single and double convector, or complete with factory-fitted grilles and end-panels. The innovative design ensures that quality and outputs are of the highest order and these are approved to stringent British and

European test procedures.

**Chorus** – Chorus radiators are elegantly and distinctively designed with a particular focus on aesthetics and performance. The Chorus range consists of four product types – the Vertical, Horizontal, the Column and the Plinth.

As well as offering a stock range, Chorus radiators can be custom made, offering a wide choice of dimensions and colours.

**LST (Low Surface Temperature)** – The low surface temperature of Myson LST radiators makes them ideal in situations where safety is paramount. Increasingly, they are specified and installed by health authorities, local authorities, government departments, leisure centres and public buildings. LST radiators come in a range of 62 sizes and outputs ranging from 325 watts

to 3746 watts.

**Plan** – Myson Plan radiators are intended for use where architects or specifiers demand a flat unobtrusive front surface combined with great strength and durability. They are available in 42 sizes and two models, Myson Plan and Myson Plan Plus. Heat outputs range from 562 watts to 2842 watts. Typical applications include banks, offices, hotels and public buildings

**Myson Towel Warmers** – Elegant and stylish, Myson Towel Warmers are assembled by craftsmen using only the finest quality materials. In addition to enhancing the appearance of a bathroom, they are both economical and efficient to run.

There is a wide range of standard units of different designs to choose from, or one can be manufactured to personal requirements. These modifications include size, shape, colour, changes to tapping size and position, dezinc-proof

units and copper panel radiators.

Stringent quality control ensures that the highest standards are maintained with every towel warmer pressure tested before leaving the factory.

Models available include floor standing and wall mounted versions; multi-rail; brass, chrome or paint finishes; radiator towel warmers and electric towel warmers. There is also a full range of complementary accessories including valves, sleeving kits and wall stays.

**Myson Fan Convectors** – Myson's Kickspace Convector heater opens up a whole new perspective for heating and home improvement. Designed to fit into small "dead" spaces under units of the floor, the Kickspace costs less to run than a 40 watt light bulb.

There is a comprehensive Kickspace range to choose from, including a model which connects to the central heating system but also offers the unique option of electric heating.

Potterton Myson (Irl) will be introducing a new Architectural Range of radiators in mid-2002.

This will include column radiators that can be used as room dividers and bench radiators incorporating a high-quality, beech-laminated seat.

Contact : Vincent Broderick, Potterton Myson (Irl).  
Tel: 01-459 0870;  
Fax: 01-459 0880.



From the Myson Select radiator range by Potterton Myson



# BTUtiful

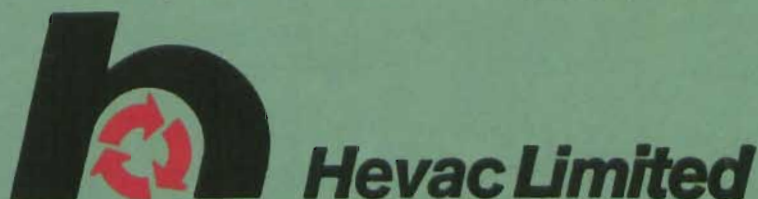
et al.: BS News



For style and elegance with BTUtiful traditional design and craftsmanship of yesteryear, the Chappee cast iron "Floreal" is the ideal radiator choice for a "classy" finishing touch in period buildings, or a spectacular contrast in contemporary settings. The "Floreal" is supplied in "old grey" natural shade but of course can be painted in any colour of your choice to enhance/complement your particular setting.

Despite its traditional origins, the "Floreal" is a very efficient and effective heating medium and is available in a range of sizes.

To see the full range of BTUtiful cast iron radiators, drop in to the Hevac showroom today.



Muirfield Drive, Naas Road, Dublin 12. Tel: (353) 01 - 419 1919.

South Ring West Business Park, Cork. Tel: (353) 021 - 432 1066. Fax: (353) 021 - 432 1068.



RADIATORS

## Veha V40 — First Choice Preference

Since its introduction, the Veha V40 range of angled and curved panel radiators has gained considerable market shares. Its increased outputs, coupled with aesthetic appeal, make it the first-preference choice of many installers and specifiers alike.

Veha Radiators has been producing radiators in Ireland

houses radiators in five different heights and 13 lengths in single and double convectors, ex-stock. For the specialist market Veha provides angled and curved 3- and 4-panel radiators to order. Veha not only provides excellent choice but also provides an outstanding customer service.



From the Veha towel radiators and towel warmer range

since 1956 and in 1994 became part of Barlo Group Plc.

Veha Radiators provide customers with a vast range of products to suit the domestic, industrial and commercial markets. The modern warehouse facility

Veha single and double A & C type radiators are manufactured to BS EN 442 under a quality system assessed against BS EN ISO 9002.

The concealed connections are so designed that, when used with the Veha

patent mounting bracket pipe, runs do not have to be modified to mate with connections on multi-panel installations. Standard size 1/2" BSP. Sizes 3/8", 3/4", 1" BSP are also available.

The airvent fitted and tested in the factory is designed and located to allow easy access. For radiators with four connections an air vent can be located on the connections.

Each radiator is individually tested to 7-Bar pressure (103psi) in accordance with the requirements of BSEN442 and can be used with indirect systems or closed circuits at a working pressure not exceeding 4.66 bar pressure (67.6psi).

Veha radiators are prepared using a 5-stage cleaning, degreasing and anti-rust process and finished in a durable electrophoretic coating that requires no further painting. Each radiator is packaged with durable cardboard end pieces and a covering of vacuum-sealed heavy duty polythene.

All radiators are supplied under warranty for five years in respect of defective materials and manufacture.

Veha Radiators V40 round-top convector radiators now offer increased heat outputs and improved design aesthetics

Veha towel radiators

offer the comfort of controlled warmth with the added luxury of readily available heated dry towels.

Functional and attractive, with smooth lines and seamless construction to complement their ergonomic styling, they protect the distinctive elegance that is synonymous with contemporary interior design.

They are ideal for both private and commercial projects including hotels, recreation centres and prestigious housing. Indeed they can be used anywhere that needs a heating and drying facility such as en-suite bedrooms, kitchens, cloakrooms or utility rooms.

There are three standard heights giving a choice of configurations and heat outputs. Also available is a range of electric towel warmers for applications where full room heating is not required.

All products are manufactured under BS 5750 : Part 2 quality management system, approved by BSI.

As part of the finishing, the radiators are degreased and phosphated before being epoxy polyester powder-coated and oven-baked to give an extremely durable, high-quality finish.

Contact: Veha Radiators.

Tel: 0404 67278;

Fax: 0404 67731.



# THE 2-WAY

THE NEW MYSON TRV 2-WAY IS SET TO MAKE YOUR LIFE SO MUCH EASIER.  
SINCE THERE'S NO NEED TO CHECK THE DIRECTION OF THE WATER FLOW.

## THAT'S

COSTLY CALL-BACKS DUE TO "SNAGGING" WON'T BE PUTTING PRESSURE ON YOUR TIME  
OR YOUR BUSINESS. BUT HERE'S WHY THE COMPETITION IS REALLY RATTLED.

## GOT THE

ONLY THE NEW MYSON TRV 2-WAY'S UNIQUE ENGINEERING ALLOWS THE VALVE TO OPERATE CORRECTLY AT  
ALL DIFFERENTIAL PRESSURES, IN EITHER FLOW DIRECTION, WITHOUT LOSS OF PERFORMANCE.

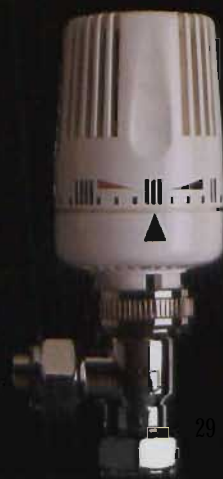
# COMPETITION

SEND WATER THE WRONG WAY THROUGH AN ORDINARY TRV, AND IT'LL RATTLE.  
WHO NEEDS THAT KIND OF PRESSURE? FIT THE NEW MYSON TRV 2-WAY, AND ENJOY A QUIETER LIFE.

# RATTLED



**MYSON**  
**TRV 2WAY**



Available in Polished Chrome, Satin Brass or Nickel finishes, in a full range of sizes. For more information contact Myson Heating Controls Ltd.  
Newcastle West, Co Limerick. Tel: 069 - 62277. Fax: 069 - 62448. email: [enquiries@myson.ie](mailto:enquiries@myson.ie) Website: [www.myson.ie](http://www.myson.ie)



## RADIATORS

# Innovative Myson Heating Controls

In recent years Myson Heating Controls has carried out a large capital investment programme at its Newcastlewest, Co Limerick manufacturing plant. Today, the production facilities are the most advanced in the industry, state-of-the-art equipment such as the new stamping press making for quality performance to the most exacting standards.

The same emphasis is placed on R&D and new product development. Myson Heating Controls has designed a comprehensive range of controls which guarantees complete control of home heating. Manufacturing of the highest standards have allowed the company to produce a top-quality product that's kinder to the environment and reduces energy consumption. The range includes the following:—

**Temperature Control TRV-2-Way** — The Myson TRV 2-Way is a highly-innovative product which is fully designed and engineered by Myson Heating Controls in Newcastle West, Co Limerick. Complete with the benefits of the well-established TRV, such as the temperature-sensitive liquid element and the sculpted white wheelhead, it is available in a range of sizes. It also comes in a wide choice of

finishes, including polished chrome, satin brass and nickel.

In standard TRVs many components comprise the internal spindle and disc assembly. However, in the TRV-2-Way, Myson uses a new bonding technique (patent pending), which prevents the flexing of this internal disc when water flows in the "wrong" direction. What results is the elimination of those all-too-familiar rattles and bangs.

To complement the standard 15mm Myson TRV2-Way, an extensive range of accessories is also available, including remote adjusters, remote sensors and theft controls.

**Thermostatic Cylinder Valve (TCV)** — Designed for use in domestic

central heating systems, the new Thermostatic Cylinder Valve provides non-electric control of the domestic hot water temperature by limiting the primary flow or return.

Manufactured by Myson Heating Controls in Limerick, the TCV is both easy to install and simple to operate.

**Flow Control (Power Extra Motorised Valves MPE)** — The Myson Heating Controls MSV Range of System Control Valves was recently rebranded as Myson's Power Extra Motorised Valves (MPE). This range of system control valves has been designed for use in fully-pumped combined central heating and hot water systems.

The MPE 222 and MPE 228 2-port valves will

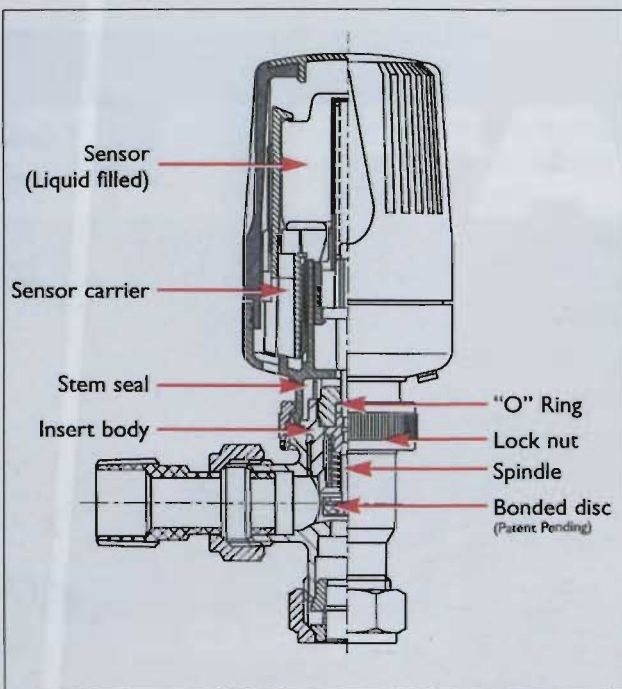
control the central heating or hot water circuit. Used in combination, these two valves will satisfy the requirements of most fully-controlled systems. If necessary, additional MPE 2-port valves can be used to split the central heating system into several circuits to provide greater control.

The MPE 322 and 328 3-port mid-position valves which can boast a market-leading 6-Watt Class 'F' Motor, will control both the central heating and hot water circuits simultaneously. These valves may be operated directly by the system programmer, or indirectly, by room and cylinder thermostats.

To complement the existing 22mm 3-port valve, Myson Heating Controls has introduced a 28mm 3-port valve.

**Automatic Bypass Valve (ABV)** — The Automatic By-Pass Valve is a system relief valve which can be used to balance the heating system. Combined with the thermostatic radiator and motorised valves, it allows the system pressure to be relieved when all other components are closed down.

Contact: Sean Hanratty, Myson Heating Controls.  
Tel: 069 - 62277;  
Fax: 069 - 62448;  
email: enquiries@myson.ie  
Website: www.myson.ie



Myson Heating's TRV 2-Way radiator valve specification

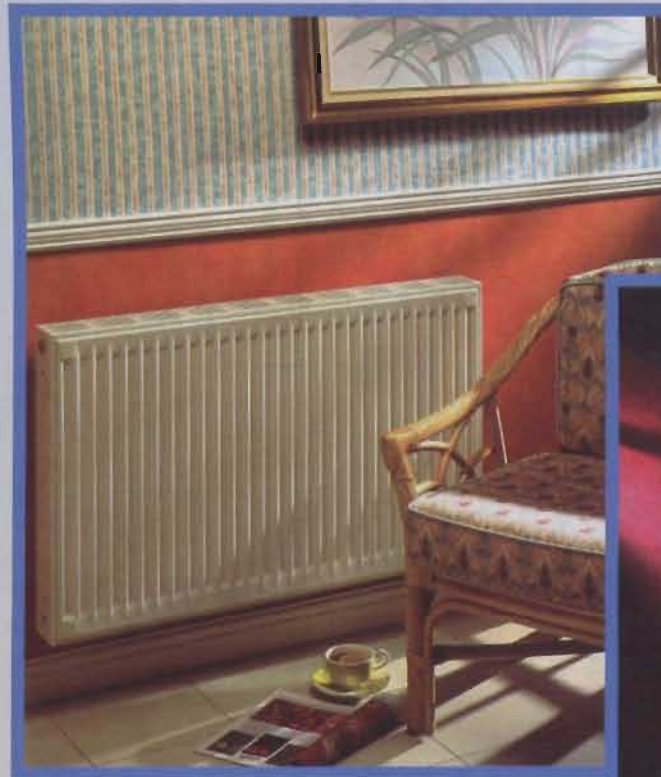


# concept *Plus*

## Convactor Panel Radiators

- Tastefully designed with in-built quality and heat efficiency.
- All CONCEPT *Plus* radiators come complete with wall brackets and all necessary screws and connections.
- Free top and side panels with all type 11 h-k, 21 h-k and 22 h-k radiators\*.
- All heat outputs are in accordance with and conform to European standard EN 442 Part 1 (Test), Part 2 (Quality).

*Unique Seven Year  
"No Quibble - No Fuss"  
Manufacturers Guarantee*



\*Limited range of 22 h-k radiators available.



**heatmerchants / Gas & Oil Parts**

[www.heatmerchants.ie](http://www.heatmerchants.ie)

[www.gasandoilparts.ie](http://www.gasandoilparts.ie)



RADIATORS

## Barlo – High Performance, Safety and Aesthetics

With its smooth, slim and shapely contours, and with none of the ugly top-tappings so rarely needed on domestic systems, the Barlo Round-Top radiator combines a discreet, modern appearance with high performance and classic good looks for safety, style and high performance.

Compare this to the sharp welded edge of a seam-top, and you'll see why it is potentially less hazardous to tumbling toddlers or the elderly.

A Barlo Round-Top radiator is hygienic and easy to keep clean, with none of those awkward topappings or seams to collect dust, weep, or go rusty. The smooth, easy-to-wipe surface of its durable, powder-coated finish will

keep on looking good year after year.

Choose from the standard range of 185 Round-Top radiators, all of which are available ex-stock. With widths from 300mm (11") and six heights down to 220mm (8"), it is the most versatile range available, with size and heat output options to meet the most demanding of specifications.

Turning to the Barlo LST range, with a choice of 46 sizes covering a wide range of heat outputs, there is a model to suit just about every application. Because the casings can be easily retrofitted around any suitable existing emitter, they are also ideal for refurbishment and upgrading.

The Barlo LST features a



Barlo dual power towel radiators combine powerful central heating in winter, with warm dry summer towels at the flick of a switch

strong, single-piece casing that is easy to install, so fitting time is kept to an absolute minimum. Compare this to other LST's with their fiddly, bolt-together covers and grilles, and you'll see why total installation costs are dramatically reduced.

With no visible welds or ugly, dust-catching joints, Barlo LST radiators are both attractive and hygienic. The casing is forward-hinged, allowing easy access to the emitter for internal cleaning and maintenance, but with a simple locking device to prevent unauthorised access.

The Jewel range of Pearl and Opal bathroom radiators from Barlo are as functional as they are attractive. With outputs up to 1453W, they will comfortably heat even the largest of bathrooms on cold winter days as part of the central heating system.

Jewel provides the power and performance of a radiator along with appealing, practical

designs to combine all the convenience of a spacious towel rail with the luxury of warm, dry towels at any time of the day.

More and more people are warming to the beauty of a Barlo towel radiator in the bathroom. They are available in a range of sizes and heat outputs to suit all bathrooms and offer a wide choice of flat profiled (Pearl) or rounded (Opal) rails. All carry a 5-year guarantee.

Unmistakably superior in style, appearance and quality, they are available from stockists everywhere and can be easily fitted into new or existing bathrooms.

The luxury of warm towels is also possible when the central heating season ends. With the option of a separate electric heating element, the towel radiator becomes a summer towel warmer at the flick of a switch.

Contact: Barlo Radiators.  
Tel: 052 - 27377.  
Fax: 056 - 22195;  
email: barlosls@indigo.ie



Easy installed or retrofitted, Barlo single-piece LSTs restrict their surface temperature to a safe maximum of 43°C



# **POTTERTON**

*Number one in  
Central Heating*

**GAS BOILERS**

**OIL BOILERS**

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**CIRCULATING PUMPS**

**VALVES AND CONTROLS**

**Potterton Myson (Ireland) Ltd**

Belgard Road, Tallaght, Dublin 24.

Tel: 01-459 0870; Fax: 01-459 0880

Email: post@potterton-myson.ie

# **MYSON**

# **HEATMASTER**

**CONVECTOR RADIATORS**

*THE HOT LINE IN RADIATORS*

## **Manufacturing — Heatmaster**

Radiators are produced from 1.25mm gauge cold rolled steel employing advanced press tool technology in state of the art presses.

Radiators are produced in lengths from 400mm to 3000mm and in heights of 300mm, 400mm, 500mm, 600mm and 900mm. Finished in RAL9010 white electrostatic powder paint.



**5** ★ ★ ★ ★ ★  
YEAR Warranty



**maple**  
marketing

**SOLE DISTRIBUTORS IN IRELAND**

**Maple Marketing Ltd, Ballycurreen Industrial Estate,  
Airport Road, Cork.**

**Tel: 021 - 496 8388; Fax: 021 - 496 8454; email: maple@indigo.ie**



RADIATORS

# Chappee Elegance by Hevac

When it comes to enhancing any location Chappee cast-iron column radiators are the perfect heat emitter. Its wide range of radiators offers a variety of styles and elegance unrivalled by any other manufacturer.

For period properties and traditional furnishing styles, the "Floreal" cast-iron radiator, with its delicate classic inlaid scrolled detail, offers traditional

craftsmanship to complement and provide the perfect finishing touches to any building. The Floreal is the perfect radiator for that period building, restaurants, hospitality suites, hotels, receptions, public houses, conference facilities etc.

It is perfect either for new heating systems or for replacing outdated or antique radiators with the minimum disruption to existing installations.

The free-standing "Floreal" will avoid damage to walls, with its 750mm height it is ideal to fit neatly below standard dado rails. Supplied in an attractive gun-metal primer finish which will complement most colour schemes, although if required the "Floreal" can also be painted to match any decor requirement. Assembled radiators are available from Hevac's stores in Dublin and can be delivered to site in lengths comprising from three to 21 sections. Further sections may be assembled on site for longer finished radiators.

With classic simplicity of design the "Dune"

radiator from Chappee captures all the elegance and traditional quality of a bygone age. With similar dimensions and section widths to traditional and obsolete column radiators, the "Dune" provides the perfect replacement with the minimum disruption to existing installations.

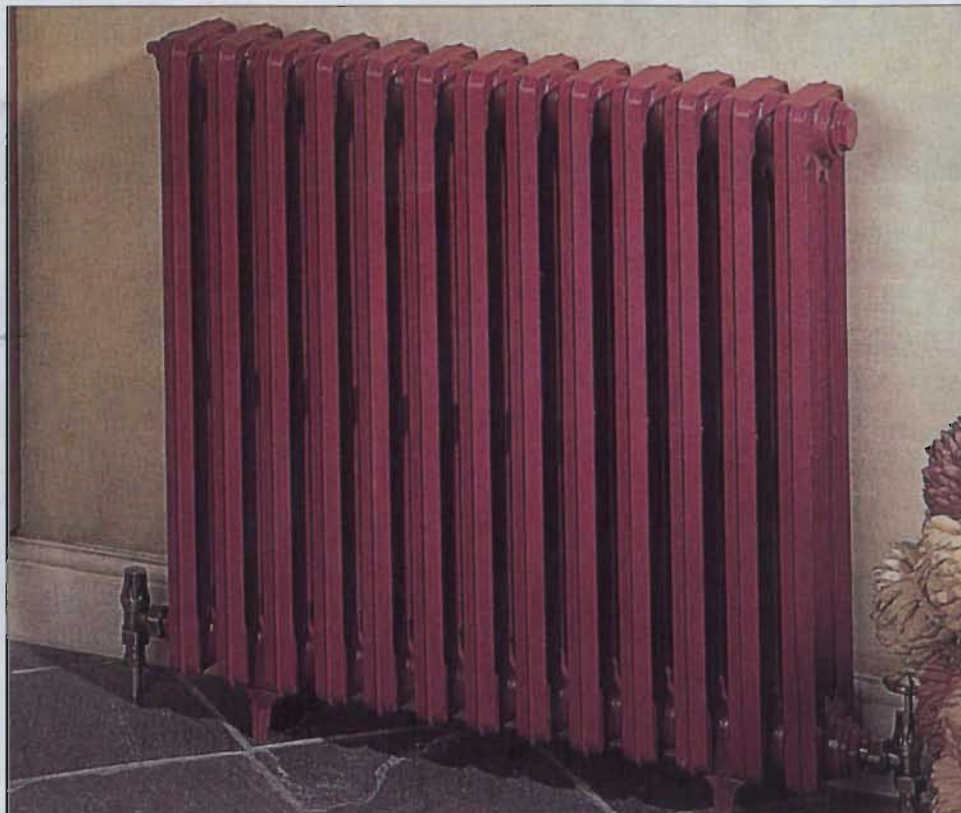
Ideal for modern or traditional settings alike, the "Dune" is supplied from Hevac's Dublin store in a primer finish and can be delivered to site assembled or, where necessary, assembled on site.

To complement and complete the package Hevac offers a range of brass radiator valves which include the much-favoured, traditionally-styled solid brass Floreal Radiator valve available from Hevac in 1/2" and 3/4".

Detailed literature is available on request from Hevac Ltd.

Tel: 01 - 419 1919;  
Fax: 01 - 458 4806;  
email: karlc@hevac.ie  
Cork

Tel: 021 - 432 1066;  
Fax: 021 - 432 1068.



From the Chappee range of cast-iron radiators. Contact: Hevac Ltd





**Barlo**  
*Aspiring*  
**Radiators**  
**Leading**  
**Others**



Barlo Sales (Irl) Ltd,  
Clonmel Business Park, Cashel Road, Clonmel, Co Tipperary  
Tel: 052 - 27377/27477  
Fax: 052 - 22195  
Email: barlosls@indgo.ie



RADIATORS

## HEATmaster – The Hot Line in Radiators

Heatmaster Radiators – a trading division of the Cork-based Maple Marketing Ltd – continues to increase its share of the Irish domestic heating market since its launch in mid 1999.

Maple Marketing Ltd was established in 1985 and has secured the exclusive Irish distribution rights for “HEATmaster” radiators and towel rails. Just recently it expanded its product portfolio in this sector with the addition of two new products – Murrano bathroom accessories from Italy featuring coloured glass in a classic Italian design; and

Rodolfo Navarro bathroom mirrors with a distinctive Spanish flare.

Since the launch of the HEATmaster in mid-1999, this product quickly succeeded in establishing a reputation for quality and service to a national network of builders providers and heating and plumbing merchants.

Designed for economical performance, style and efficiency, HEATmaster radiators are manufactured to the ISO9001 Quality System and are certified to DIN EN442. The final finishing process is in

compliance with DIN 55900. The process involves totally submerging all radiators in a primer paint which is oven-baked and finally coated by a series of multi-spray applications of RAL 9010 white epoxy-polyester electrostatic powder paint cured at 200°C.

### Product Range & Type

— The HEATmaster compact convector range includes factory-fitted top and side covers, at no extra cost, on both the single and double convector types. Chrome air vents, plugs, sealing rings, wall brackets, nylon buffers, screw and wall plugs are all included within the packaging of the radiator.

The range is produced in heights of 300mm, 400mm, 500mm, 600mm and 900mm, and in lengths from 400mm to 3000mm. Top and bottom opposite end 1/2” connectors are standard.

**Packaging** — The high quality, aesthetically-pleasing HEATmaster product is carefully packed and protected by the use of carton box end-sleeves; plastic protectors fitted to wall plugs; bubble-wrapped; and finally double shrink-wrapped in a heavy gauge polythene protective film. The HEATmaster radiator is therefore fully-protected from factory despatch to final

installation.

### HEATmaster Towel Rail

— This product is manufactured to the same exacting standards as the convector radiators, and also produced in the matching colour RAL 9010 white. The stylish and functional design enhances the utilisation of restricted spaces in bathrooms and kitchens, providing heat while holding and drying towels.

### Customer Care & Service

— Maple Marketing's nationwide delivery service (in partnership with its logistics operators) ensures that delivery will be made anywhere within 48 hours from receipt of order.

The HEATmaster ranges carry a 5-year, no-quibble guarantee against any defects caused by faulty materials or manufacture.

Experienced and friendly staff are readily available to assist and advise customers with technical and promotional back-up.

Contact: Charles Wheeler or Aidan Martin, Maple Marketing.

Tel: 021 - 496 8388;

Fax: 021 - 496 8454;

email: maple@indigo.ie



The Heatmaster portfolio includes radiators and towel rails.



# RAS-C Bi-Directional Domestic Radiator Thermostats

RAS-C



FACT FILE

"Affordable Quality"

**High Performance liquid sensor**  
Provides superior performance compared to similarly priced wax sensor products

**Reliable non-stick gland seal**  
Provides years of trouble free service

**Installer Friendly Tail-Piece**  
Ridged thread grips PTFE tape, sliding olive provides up to 8mm of length adjustment.



**Mechanical positive off feature**  
Allows radiator to be removed without risk of leakage, whatever the temperature

**Unique snap-lock sensor fitting**  
Quick and easy to fit, requires no tools

**Bi-directional valve body**  
Can be fitted in flow or return, no need to identify pipework

**Danfoss**

**Danfoss (Ireland) Ltd.**

Nangor Road Business Park,  
Dublin 12, Ireland.  
Tel: 01 - 626 8111; Fax: 01 - 626 9334  
email: marketing@danfoss.ie



RADIATORS

## 'More Than Just Pretty'

Nearly every week it seems, there is yet another advance in domestic boiler technology which increases efficiency, reduces costs, and saves the environment. "This is all good, not to say essential progress", says Oliver Sharkey, Sales Director, Merriott Radiators. "Radiators too are changing, but in a different direction", he continues. "The radiators, the only part of the heating system that has to show, is starting to blossom. What is surprising is how long it has taken. For many years in offices and shops, public buildings and even pubs, the designer radiator has been used nearly as often and the normal panel radiator. Now we see home owners, designers and

architects using the strong features of designer rads to their advantage in the home. "We at Merriott, who have been selling designer radiators into the commercial market for years, know how clever use of the wide variety of these radiators can both help the heating system designer and enhance the visual appearance of the room.

"Column radiators are a good example of what I mean. Forget those dusty monsters that perhaps heated your schoolroom — designer columns come in smoothly-painted durable finishes and areas easy to wipe clean as panels

.What they offer the designer is compactness of heat exchange surface so that they can be

selected to fit nearly any available surface. In turn, this may well give the chance to conceal pipework more cleverly, and give a neater finish.

"But designer radiators can give much more than just compactness. As the customer can chose the styling, colour and finish, the old rules about not seeing the rads go out of the window. Now the radiator can become a feature of the room.

"Designer column radiators can be mounted in front of floor-to-ceiling windows, using the option of built-in feet, not only to solve the heating problem, but also to provide a security barrier. Similarly, vertically-mounted, made-to-measure columns can be used to totally fill an otherwise unused space. As the radiators can be specified in a wide range of RAL or BS colours, the finish can be either shy and retiring or make a bold statement. Installations in period houses could use columns to give an old-fashioned look, but still offer the engineering and cleanliness of steel.

"Now I know just how competitive the designer market can be and designer radiators do cost more than standard panels. I would not suggest that

installations need designer rads throughout the house. Panels in bedrooms are usually as good a solution as any, and they keep costs in check.

"What we have found though is that the more discerning customer, spending perhaps these days hundreds of thousands of pounds on refurbishment, appreciates being offered a choice.

"So, offering the option of designer rads shows that you are thinking about their homes as well as giving a sound installation.

In doing so you are also adding value and profits to the job. Two or three such radiators can easily give as much profit as all the other rads in the house.

"We are helping you by telling customers about the possibilities that designer rads offer them when they are planning their new homes or a major make-over. Now our Merriott designer ranges are being sold and displayed by your local Barlo stockist so that selling, installing and profiting from this change in the market is getting easier every day."

Contact: Merriott Radiators.  
Tel: 01 - 459 6213;  
Fax: 01 - 4591 5143;  
email: [info@merriott-radiators.com](mailto:info@merriott-radiators.com);  
Website: [www.merriottradiators.com](http://www.merriottradiators.com)



Merriott column radiators will enhance any commercial or domestic interior



# Super V40



*Veha Radiators' Super V40 range was specifically developed for current and projected market requirements. It represents a unique blend of all the technical expertise, knowledge and experience Veha Radiators has accumulated over the last 40 years, with the latest design and manufacturing techniques.*

*The result is a radiator that is aesthetically-pleasing, efficient, and highly competitive in the marketplace*

## FEATURES & BENEFITS

- ◆ Greater heat output due to fin length increase from 35mm to 40mm
- ◆ 5-year warranty in respect of defective materials and manufacture
- ◆ Stock range is manufactured to BS EN 442 under a quality system assessed against BS EN ISO 9002
- ◆ Each radiator is individually tested to 7-bar pressure (103psi)
- ◆ Single and double convector configurations
- ◆ Five heights
- ◆ Fourteen length options
- ◆ Standard tappings on all radiators are 1/2" BOE (bottom-opposite-end)
- ◆ 5-stage cleaning, degreasing and anti-rust process
- ◆ Durable, electrophoretic paint coating
- ◆ Suitable for indirect systems or closed circuits at a working pressure not exceeding 4.66-bar (67.6psi)
- ◆ The built-in air vent is projection welded to the rear of the panel



## CONTACT

Sales Office

Veha Radiators Ltd, The Murrough, Co Wicklow

Tel: 0404 - 67278; Fax: 0404 - 67731





RADIATORS

## Concept Kompact 'Plus' Radiator from Heatmerchants

Dedicated to leading the heating industry; Heatmerchants are delighted to highlight their new Concept Kompact 'Plus' Radiator. This radiator gives an average increase in heat output of 7% greater than its predecessor, the Concept 2000.

However, an additional bonus, according to Heatmerchants, is that the price of the Concept Kompact 'Plus' is the same as the Concept 2000.

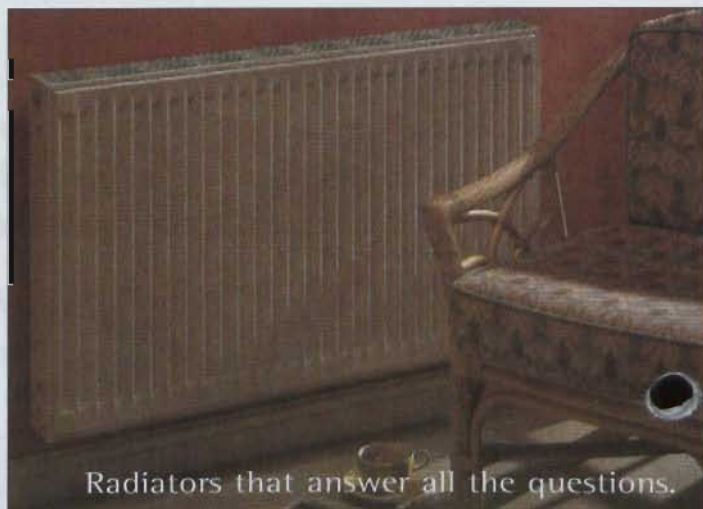
But how have Biasi achieved a 7% increase in heat output over the remarkable Concept 2000? By changing the fin depth of the radiator by 10mm — from 30mm to 40mm — the heat efficiency of the radiator increases. The Concept Kompact 'Plus' is available in three options

exclusively from Heatmerchants:—

- Type 11h-k: One heat panel and one convector plate;
- Type 21 h-k: Two heat panels and one convector plate;
- Type 22 h-k: Two heat panels and two convector plates.

All three ranges are available in a choice of length and height options to suit all needs. All radiators also come with free top and side cover grills, as well as all necessary wall brackets, screws and connectors.

Concept radiators are masterfully designed and made to facilitate their optimum use. They are made in Europe's most advanced radiator factory in Italy, where Biasi are constantly looking at ways to improve their radiators. In support of Biasi's remarkable



The Concept Kompact 'Plus' from Heatmerchants is suitable for application in virtually any setting

improvements, the new European Authority for testing the manufacture of radiators has granted the EN442 Part 1 (Test), Part 2 (Quality) approval standard to their complete range of radiators.

With its perfectly-sized waterways, the Concept Kompact 'Plus' heats up rapidly and, at the same time, provides protection against blockages. As the convector fins are welded directly to the waterways, higher heat efficiency is ensured.

Technical data in relation to the Concept Kompact 'Plus' is as follows:—

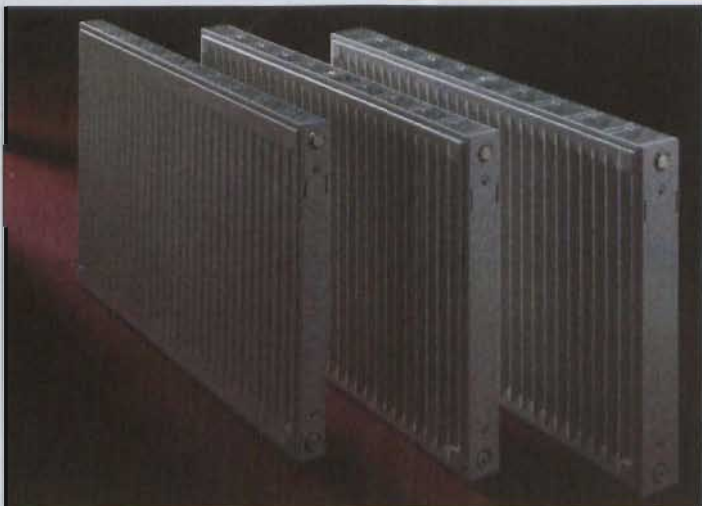
- Manufactured from 1.25mm cold rolled, fully-finished, steel;
- Pressure tested to 8 bars, suitable for 6-bar usage;
- Primer coated and finished with super-epoxy paint;
- Suitable for use in

open or closed indirect heating systems, whether single or twin-pipe.

The new Concept Kompact 'Plus' still carries Heatmerchants' unique 7-year "no quibble, no fuss" product guarantee. It also carries Heatmerchants' unique £30 replacement fee should a radiator have to be taken off the wall.

For more information on the Concept Kompact 'Plus' contact your local Heatmerchants branch. These are located in:—  
Athlone; Bray; Cork (two branches); Dublin (four branches);  
Galway; Kilkenny; Limerick; Naas; Navan; Sligo; Tralee; and Waterford.

Heatmerchants central warehouse and Group Headquarters are located in Athlone. Tel: 0902 24000  
Website: [www.heatmerchants.ie](http://www.heatmerchants.ie)



Concept Kompact 'Plus' radiators combine aesthetics with practicality and elegance with optimum heating power and efficiency



**Merriott**  
DESIGN RADIATORS FROM BARLO

# *Discover the Range that made a **Market Leader***



Horizontal Panel



LST Radiator



Towel Radiators

Tall Column



Low Column Radiators

**Merriott Radiators Ltd,  
Unit 8, Broomhill Business Park,  
Broomhill Road, Tallaght, Dublin 24.  
Tel: 01 - 459 6213; Fax: 01 - 451 5143.  
Email: [sales@merriottradiators.com](mailto:sales@merriottradiators.com)  
[www.merriottradiators.com](http://www.merriottradiators.com)**



RADIATORS

## Danfoss Push-Fit Eases the Strain

Danfoss has introduced a versatile new push-fit version of its popular RAS-C and RAS-D TRVs. Available in combi packs, complete with all of their normal features, these new TRVs have an elbow that incorporates a push-fit pipe fitting that can be used on copper and most leading brands of plastic pipe.

It has been designed to offer the heating installer and house builder the fastest and best solution when fitting radiator thermostats into central heating systems where either

plastic or copper pipes have been specified.

Currently around 20% of all new domestic systems make use of plastic piping and the sale of plastic pipes is currently growing by 20% per year. Push-fit and plastic pipes could easily become the favourite choice in Ireland within the next five years.

More and more installers and builders have already discovered the benefit of push-fit fittings and the use of plastic pipes due to:

- A general demand for increased productivity and reduction of defects in the construction industry
- A continuous need for a reduction in construction time to reduce build times and improve cash flow;
- A general demand to reduce installation times and complexity due to the shortage of skilled labour.

By using the Danfoss TRV with push-fit elbow, the installer is able to optimise the speed of

installation and achieve full flexibility in terms of workflow and neatness of installation. The push-fit elbow offers a neat installation in situations where pipes are installed into dry lining, by allowing plastic piping to be used throughout the whole heating installation. The push-fit elbow is suitable for use with copper pipe and most popular plastic pipes, including Hep20, Polyplumb, OsmaGold, Speedfit and Equator (NB: Plastic pipes, must comply with BS7291). It is important when using plastic pipes that a pipe insert of the same brand as the pipe is used.

All push-fit fittings can be further secured with a clip or an attractive white cover cap to complete the installation. If, for some reason, it becomes necessary to remove the pipe, this can be done in one quick operation, without causing any damage to the pipe or fitting.

Contact: Robert Fitzpatrick or David Holmes, Danfoss Ireland Ltd.  
Tel: 01-626 8111;  
Email: [marketing@danfoss.ie](mailto:marketing@danfoss.ie)



Danfoss Push-Fit eases the strain.

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# Cheque mate



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Our top quality range of thermostatic valves includes the smart chrome-top VT200, as well as the VT15 and VT117. All offer energy savings and reversible flow bodies to give unrivalled performance, individual room temperature control and stylish appearance.

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Honeywell Control Systems Limited

Honeywell House, Bracknell

Berkshire, RG12 1EB

Published by ARROW@TU Dublin, 2001

#### Sheffield Office

Honeywell Control Systems Limited

119 Psalter Lane, Sheffield

Yorkshire S11 8YR

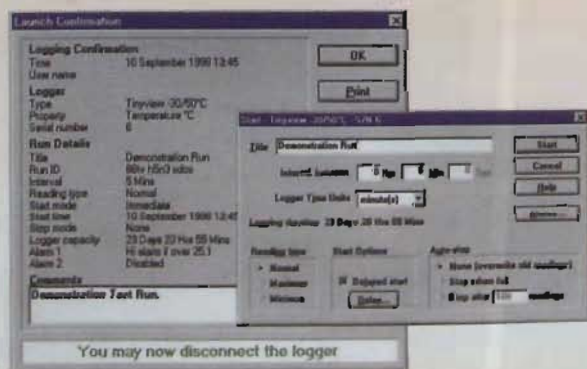
Tel +44 114 255 6451



# TINYTAG TRANSIT

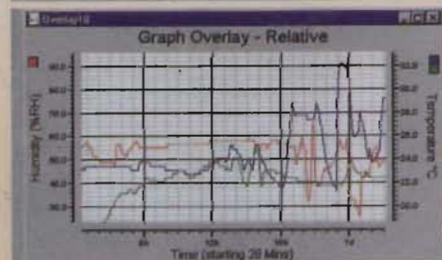
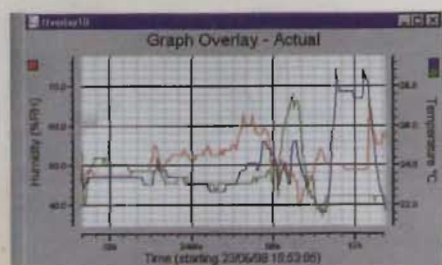
## AUTOMATIC TEMPERATURE LOGGING AT AN INCREDIBLE LOW PRICE!

Designed to meet the stringent high standards of temperature monitoring in the food transportation field, this little stand-alone battery-operated temperature logger is the perfect solution in most applications which range between -30 to +50°C. Capable of recording approximately 1800 readings with a 1 sec. to 10-day interval, and combining the flexibility of a push button or delayed start, you'll be amazed at how little it costs.



The software and cable that are included will allow the recorded information to be downloaded and presented in numerical or graph format. Data can also be transferred to other windows applications for presentation with reports.

Since additional loggers can be purchased at a reduced cost due to no further software being required, businesses needing multiple locations monitored will benefit even further from the TINYTAGTRANSIT's low cost.



- 1800 readings approx.
- Two programmable alarms
- 1 second to 10-day logging interval
- Timed and push-button start available
- Offload data when stopped or when at 1-minute logging intervals
- Battery life up to two years
- Min/Max/Actual readings
- Memory size 2k (non volatile)
- Three stop options
- Software and cable included

For further information or a demonstration contact:

**Manotherm Limited**  
**THE CONTROL CENTRE**  
 4 Walkinstown Road, Dublin 12.  
 Tel: 01 - 452 2355; Fax: 01 - 451 6919  
 email: manotherm@eircom.net